D003

- 1. (currently amended) A turf maintenance machine for traversing a turf surface having debris elements and turf fill material disposed thereupon, said machine comprising:
- a main sweeper brush for engaging the debris elements and the turf fill material and transferring the debris elements and the turf fill material toward a forwardly-mounted debris hopper; and
- a filter device disposed within the debris hopper for receiving the transferred debris elements and the turf fill material, and for separating the debris elements from the turf fill material, wherein the debris elements are captured by the machine for subsequent disposal and the turf fill material is returned to the turf surface ahead of the main sweeper brush as the machine traverses the turf surface; and
- a turf engaging structure in contact with the turf surface to precondition the turf surface prior to an engagement by the main sweeper brush.
  - 2. (canceled)
- 3. (currently amended) A turf maintenance machine according to claim 1, wherein the filter device includes multiple filter stages that separate the debris elements form the turf fill material, said filter stages including a perforated hopper bottom and a shelf disposed away from the perforated hopper bottom, with the shelf having larger apertures than the perforated hopper bottom to minimize clogging of the perforated hopper bottom.
- 4. (original) A turf maintenance machine according to claim 3, wherein the perforated hopper bottom includes a wire screen and the shelf includes an expanded metal screen.
  - (canceled)
  - 6. (canceled)

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8. (currently amended) A turf maintenance machine according to claim 6 1, wherein the turf engaging structure is movable coupled to the machine so that varying degrees of turf engagement may be implemented.

rear edge of the planar element drags along the turf.

- 9. (original) A turf maintenance machine according to claim 1, further comprising a turf surface grooming device which engages the turf surface and biases a substantial portion of the engaged turf surface into a direction of machine travel.
- 10. (original) A turf maintenance machine according to claim 9, wherein the turf surface grooming devices includes at least one brush.
- 11. (original) A turf maintenance machine according to claim 9, wherein the turf surface grooming device is movably coupled to the machine so that varying degrees of down force may be transferred to the turf surface grooming device.
- 12. (currently amended) A turf maintenance machine for collecting debris elements from a turf field having particulate turf fill material disposed thereupon, said machine comprising:
- a main sweeper brush for engaging the turf field and transporting debris elements and turf fill material toward a forwardly-mounted debris hopper; and
- a filter device disposed within the debris hopper for receiving the main sweeper brush transported debris elements and the turf fill material, the filter device separating the turf fill material from the debris elements and returning the turf fill material to the turf field ahead of the main sweeper brush as the machine traverses the turf field; and
- a turf engaging structure in contact with the turf field to precondition the turf field prior to an engagement by the main sweeper brush.

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- 13. (canceled)
- 14. (original) A turf maintenance machine according to claim 12, wherein the filter device includes multiple filter stages.
- 15. (original) A turf maintenance machine according to claim 14, wherein one of the multiple filter stages includes a wire screen and another one of the multiple filter stages includes an expanded metal screen.
  - 16. (canceled)
  - 17. (canceled)
- 18. (currently amended) A turf maintenance machine according to claim 47 12, wherein the turf engaging structure includes a transverse planar element.
- 19. (currently amended) A turf maintenance machine according to claim 17 12, wherein the turf engaging structure is movably coupled to the machine so that varying degrees of turf engagement may be implemented.
- 20. (original) A turf maintenance machine according to claim 12, further comprising a turf surface grooming device which engages the turf field and biases a substantial portion of the engaged turf field into a direction of machine travel.
- 21. (original) A turf maintenance machine according to claim 20, wherein the turf surface grooming device includes at least one brush.
- 22. (original) A turf maintenance machine according to claim 20, wherein the turf surface grooming device is movably coupled to the machine so that varying degrees of down force may be transferred to the turf surface grooming device.
- 23. (previously amended) A turf maintenance machine for collecting debris elements from a turf field having particulate turf fill material disposed thereupon, said machine comprising:

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- a filter device disposed within the debris hopper for receiving the transferred debris elements and the turf fill material, and for separating the debris elements from the turf fill material, wherein the debris elements are captured by the machine for subsequent disposal and the turf fill material is returned to the turf surface ahead of the main sweeper brush as the machine traverses the turf surface; and
- a turf engaging structure disposed upon the machine forwardly relative to the main sweeper brush and the hopper, said turf engaging structure for contacting the turf field and loosening debris elements for subsequent engagement by the main sweeper brush.
- 24. (original) A turf maintenance machine according to claim 23, wherein the turf engaging structure includes a transverse planar element.
- 25. (original) A turf maintenance machine according to claim 23, wherein the turf engaging structure is movably coupled to the machine so that varying degrees of turf engagement may be implemented.
- 26. (previously amended) A turf maintenance machine for collecting debris elements from a turf field having turf fill material disposed thereupon, said machine comprising:
- a main sweeper brush for engaging the turf field and transporting debris elements and turf fill material toward a forwardly-mounted debris hopper; and
- a filter device disposed within the debris hopper for receiving debris elements and turf fill material, and for separating the debris elements from the turf fill material, wherein the debris elements are captured by the machine for subsequent disposal and the turf fill material is returned to the turf surface ahead of the main sweeper brush as the machine traverses the turf surface; and

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a turf surface grooming device disposed upon the machine rearwardly relative to the main sweeper brush, said turf surface grooming device engages the turf field and biases a substantial portion of the engaged turf field into a direction of machine travel.

- 27. (original) A turf maintenance machine according to claim 26, wherein the turf surface grooming device includes at least one brush.
- 28. (original) A turf maintenance machine according to claim 26, wherein the turf surface grooming device is movably coupled to the machine so that varying degrees of down force may be transferred to the turf surface grooming device.
- 29. (currently amended) A method of maintaining a turf field having debris elements and fill material disposed thereupon, said method including the steps of:

providing a machine having a main sweeper brush, a filter device, and a hopper mounted forwardly relative to the main sweeper brush, and said filter device being disposed within the debris hopper;

traversing upon the turf field with the machine;

preconditioning the turf field by a turf engagement structure disposed upon the machine in front of the main sweeper brush, said turf engagement structure contacting the turf field and loosening a debris element from the turf field prior to transport of said loosened debris by the main sweeper brush

engaging the turf field with the main sweeper brush to transport debris elements and turf fill material toward the debris hopper;

receiving the sweeper transported debris elements and the turf fill material at the filter device, the filter device separating the turf fill material from the debris elements; and

returning the turf fill material from the filter device to the turf field ahead of the main sweeper brush as the machine traverses the turf field.

30. (canceled)

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- 31. (original) The method of claim 29 further comprising the step of: grooming the turf surface by a turf grooming device disposed upon the machine behind the main sweeper brush, said turf grooming device biasing a substantial portion of the turf field into the direction of machine travel.
- 32. (currently amended) A method of maintaining a turf field having debris elements and fill material disposed thereupon, said method including the steps of:

providing a machine having a main sweeper brush, a filter device, and a hopper mounted forwardly relative to the main sweeper brush, and said filter device being disposed within the debris hopper;

traversing upon the turf field with the machine;

preconditioning the turf field by a turf engagement structure disposed upon the machine in front of the main sweeper brush, said turf engagement structure contacting the turf field and loosening a debris element from the turf field prior to transport of said loosened debris by the main sweeper brush;

engaging the turf field with the main sweeper brush to transport debris elements and turf fill material toward the debris hopper;

separating the sweeper transported debris elements and the turf fill material at the filter device; and

returning the separated turf fill material from the filter device to the turf field ahead of the main sweeper brush as the machine traverses the turf field.

- 33. (canceled)
- 34. (original) The method of claim 32 further comprising the step of: grooming the turf surface by a turf grooming device disposed upon the machine behind the main sweeper brush, said turf grooming device biasing a substantial portion of the turf field into the direction of machine travel.

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